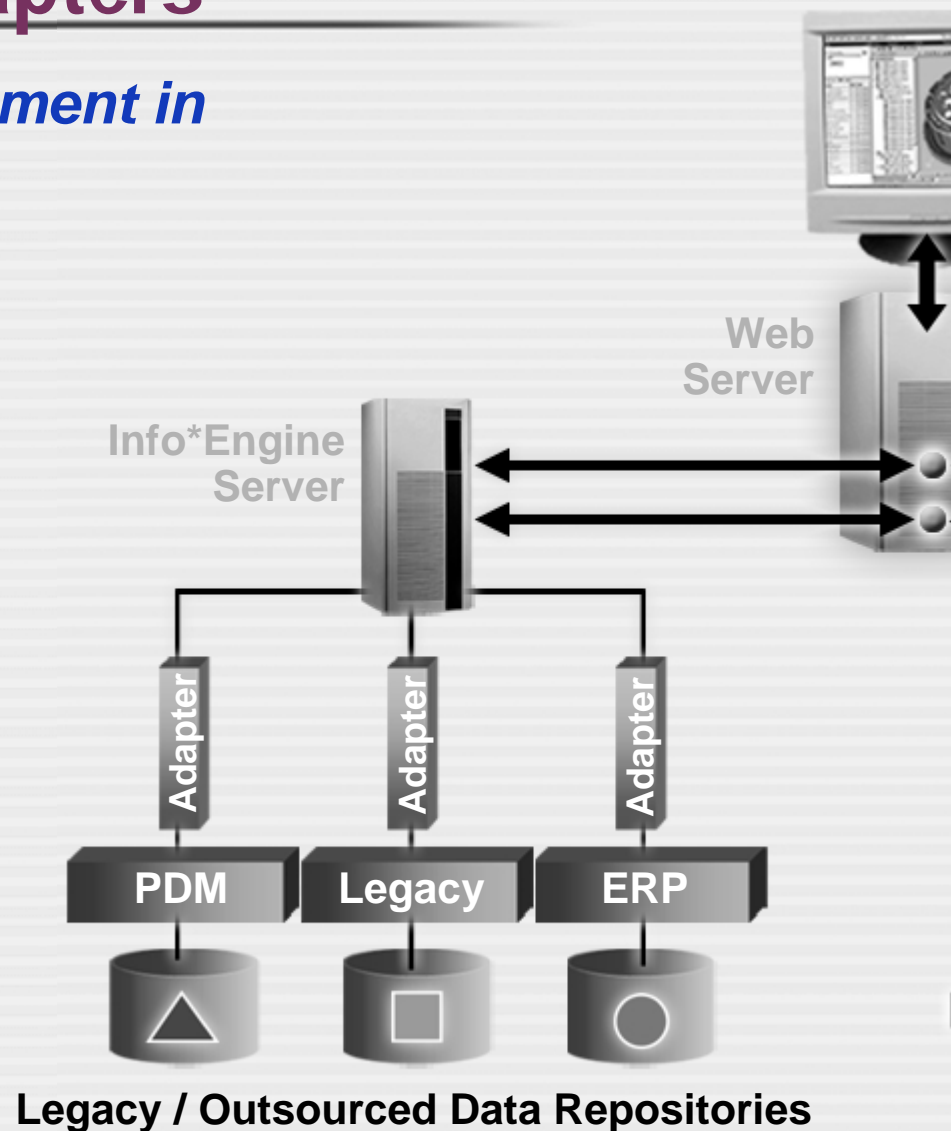


Info*Engine Adapters

Benefiting from your investment in technology.

- Pre-built and custom adapters available
- Database Adapters
 - Oracle
 - JNDI/LDAP
 - ODBC/JDBC
 - EDA/SQL
- Application Adapters
 - Metaphase
 - Baan PDM
 - SAP
- Generic Legacy/Mainframe Adapters



Windchill™

Composite Applications

Business
Solution

WINDCHILL INFO*ENGINE
DATABASES
DATA
ACQUISITION

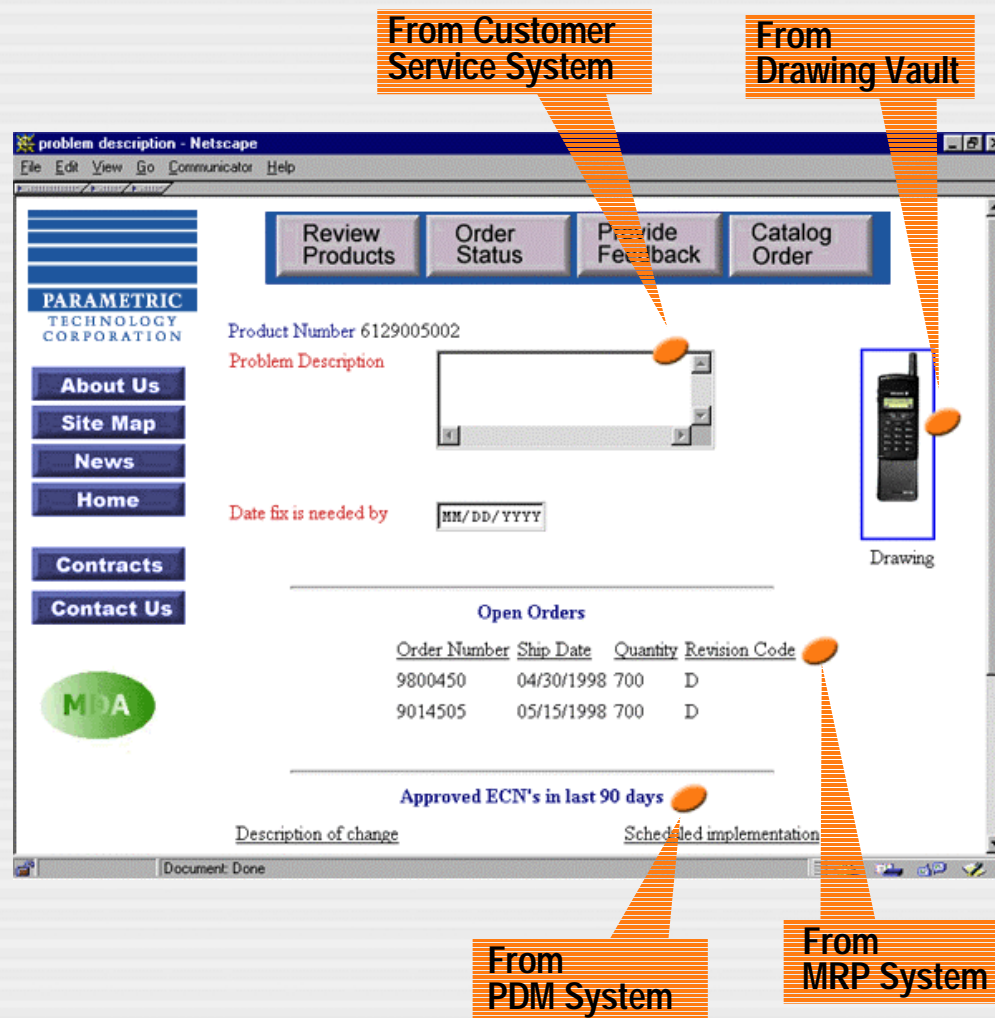


Providing critical business knowledge across diverse applications, systems, locations and environments

Windchill™

Info*Engine Composite Application Example

- Web-enables legacy and incumbent systems
- Provides a role-based, composite view of data from multiple sources
- Web-browser based interface requiring minimal training
- Easily extendable and customizable



The screenshot shows a web browser window titled "problem description - Netscape". The interface includes a navigation menu on the left with links like "About Us", "Site Map", "News", "Home", "Contracts", and "Contact Us". The main content area displays a "Problem Description" form with fields for "Product Number" (6129005002) and "Date fix is needed by" (MM/DD/YYYY). Below this is a table of "Open Orders" and a section for "Approved ECN's in last 90 days".

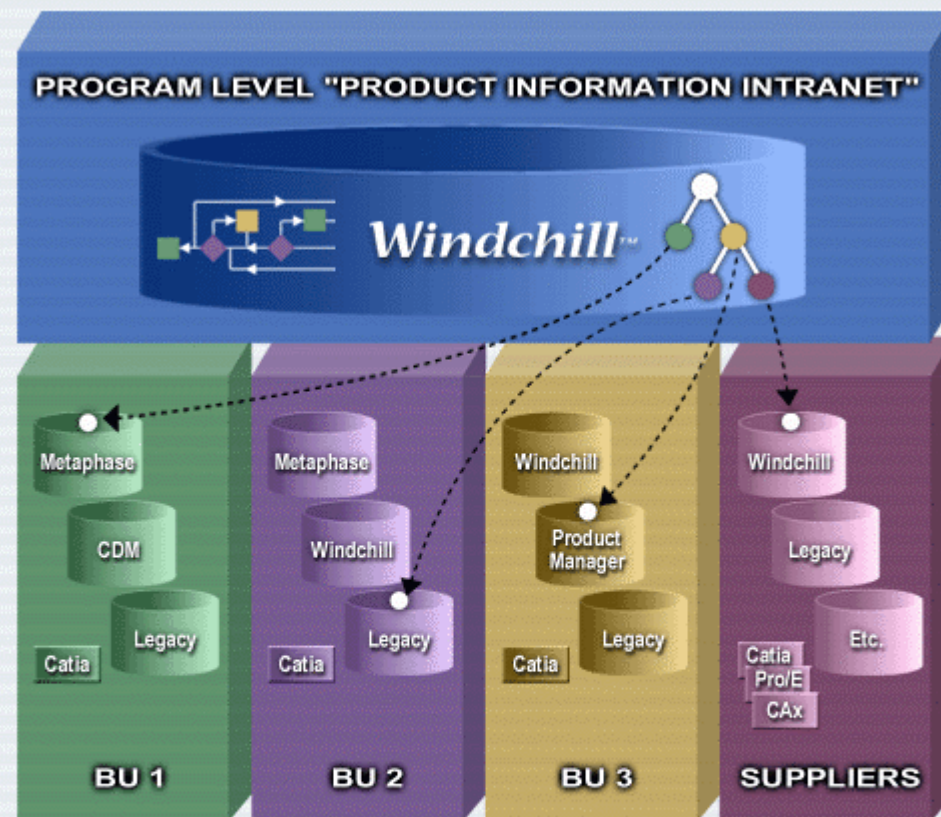
Annotations with orange callouts point to various data sources:

- From Customer Service System**: Points to the "Review Products" button.
- From Drawing Vault**: Points to the "Drawing" image placeholder.
- From PDM System**: Points to the "Description of change" field.
- From MRP System**: Points to the "Scheduled implementation" field.

| Order Number | Ship Date | Quantity | Revision Code |
|--------------|------------|----------|---------------|
| 9800450 | 04/30/1998 | 700 | D |
| 9014505 | 05/15/1998 | 700 | D |

Windchill Based Info*Engine Example

- Windchill composite applications are further enhanced by Info*Engine
- Relates disparate information, creating a complete product representation
- Provides common access point, regardless of information source
- Enables cross-system process definition and automation



Distributed Virtual Product Structure

Bill of Materials - Microsoft Internet Explorer

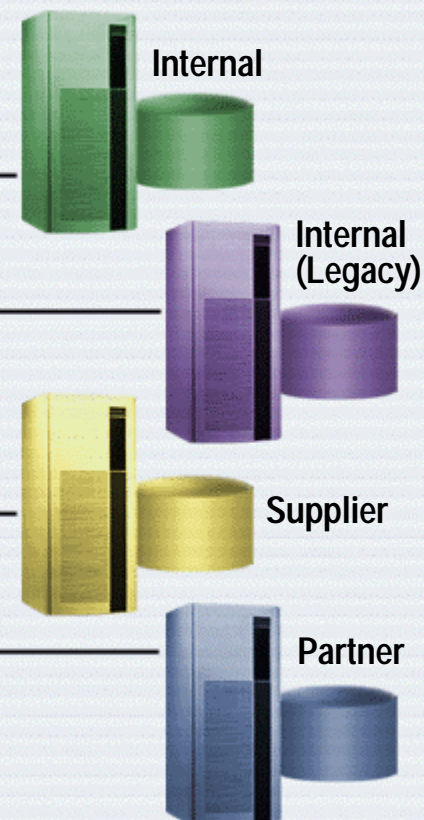
File Edit View Go Favorites Help

Address <C:\WINNT\Profiles\msheidan.000\Desktop\URLTemplateAction.htm>

Links [PTConnector](#) [WC Home](#) [Copyright](#) [Plastic Inc.](#) [Demo Slides.ppt](#) [Windchill Intranet](#) [InPart](#) [E](#)

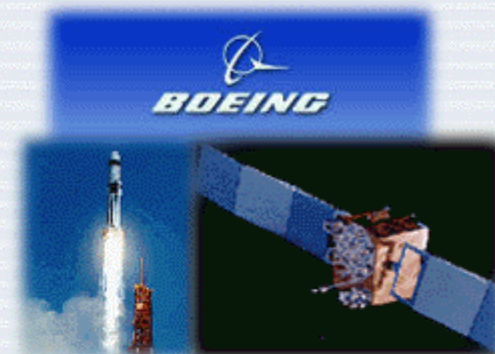
Engineering Bill of Material for Copier-M1000

| | | | |
|---|-------|---------|--------------------------------------------------------------|
| 0 | ... | 5510000 | (COPIER-M1000) D (Engineering) |
| 1 | ..... | 6 | each of 5558962 (AUXILIARY_TRAY) A (Engineering) |
| 1 | ..... | 1 | each of 55598234 (KEY_LOCK) A (Engineering) |
| 1 | ..... | 3 | each of 555222872 (WARNING_DISPLAY_PANEL) A (Engineering) |
| 1 | ..... | 2 | each of 555724543 (TONER_CARTRIDGE_IMPROVED) A (Engineering) |
| 1 | ..... | 4 | each of 5557234 (LOWER_CASSETTE) A (Engineering) |
| 1 | ..... | 5 | each of 55598012 (MANUAL_FEEDER) A (Engineering) |
| 1 | ..... | 1 | each of 55555765 (UPPER_CASSETTE) A (Engineering) |
| 1 | ..... | 1 | each of 55598222 (CD_UNIT) A (Engineering) |
| 1 | ..... | 1 | each of 5555523 (TOUCH_KEYPAD_ASSY) A (Engineering) |
| 2 | ..... | 1 | each of 55432432 (KEY_PAD_HOLDER) A (Engineering) |
| 2 | ..... | 1 | each of 5587623 (KEY_PAD_FASTENER) A (Engineering) |
| 2 | ..... | 1 | each of 558928367 (ENLARGE_TOUCHPAD) A (Engineering) |
| 2 | ..... | 1 | each of 5577345 (REDUCE_TOUCHPAD) A (Engineering) |
| 2 | ..... | 1 | each of 5587243 (DIRECT_KEY_TOUCHPAD) A (Engineering) |
| 2 | ..... | 1 | each of 55999777 (EXPOSURE_KEYS) A (Engineering) |

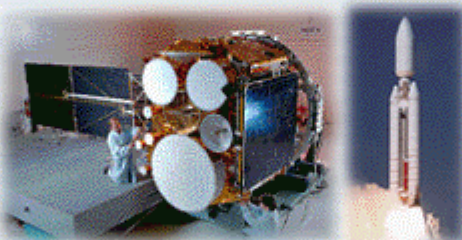


Info*Engine Customers

Raytheon E-Systems



LOCKHEED MARTIN



Honeywell



JAGUAR



ERICSSON

Windchill™

Boeing - Rocketdyne

○ Scope

- “Buyer’s World” solution based on information contained in ERP, PDM and MES systems

○ Scale

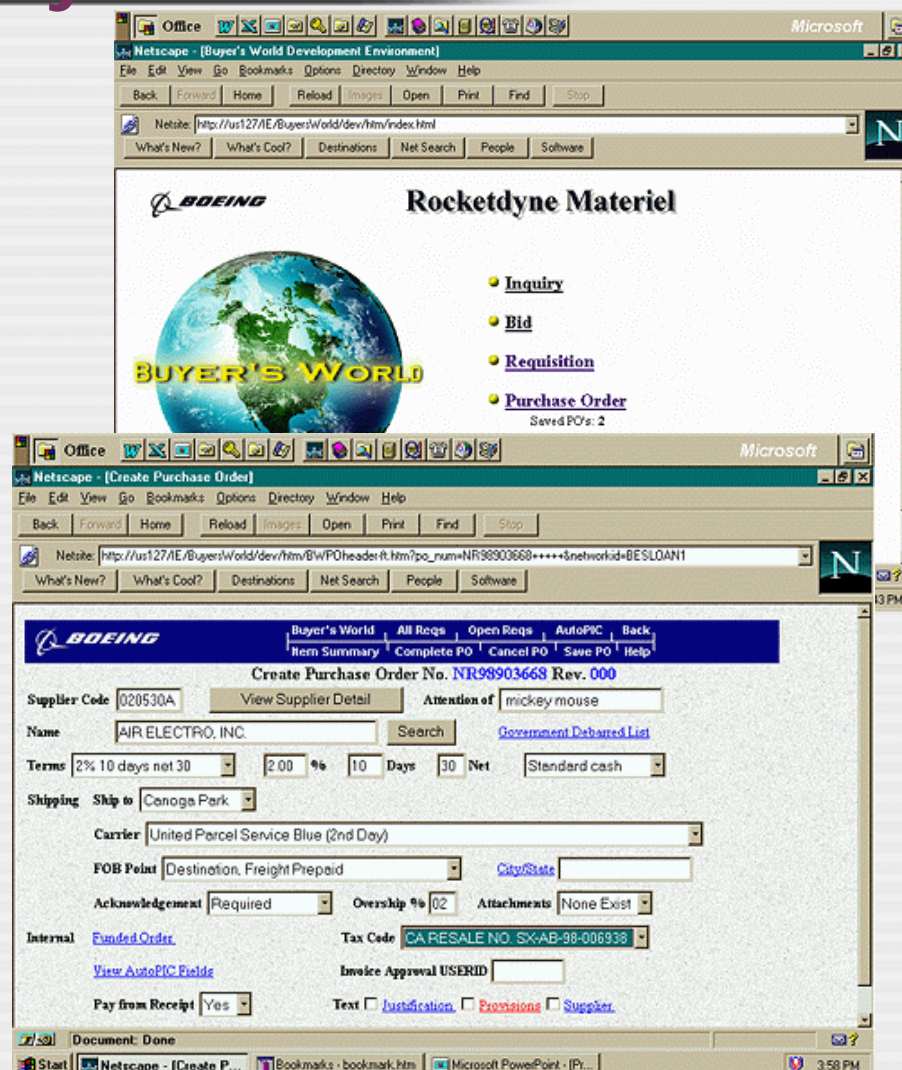
- 800 seats PDM
- 300 seats Oracle
- 300 seats EDA/SQL

○ Benefit

- Cost reduction
- Timely up-to-date information
- Simplified process
- Reduced training

○ Tool selection criteria

- Thin client
- Web-based solution
- Connectivity to legacy data



General Motors

○ Scope

- Web-based dealer interface to GM mainframe-based financial, warranty, and parts systems.

○ Scale

- 9000 dealers
- 25,000 seats

○ Benefit

- Cost reduction
- Timely reduction
- Simplified process

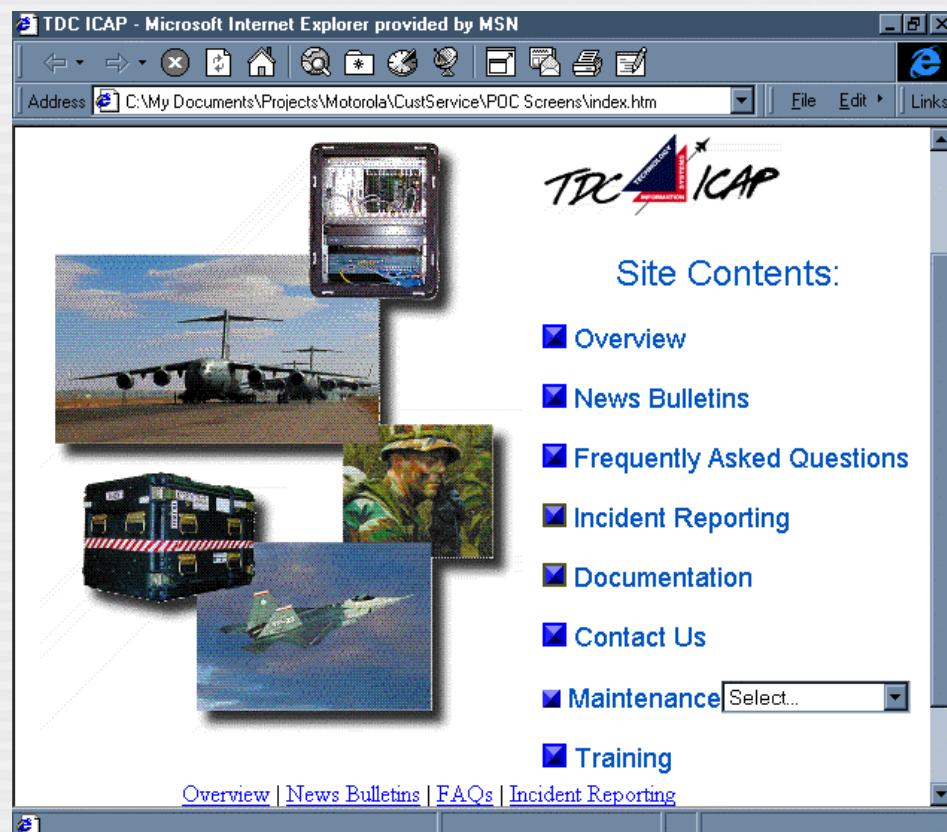
○ Tool selection criteria

- Thin client
- Fast implementation
- Domain expertise



Motorola

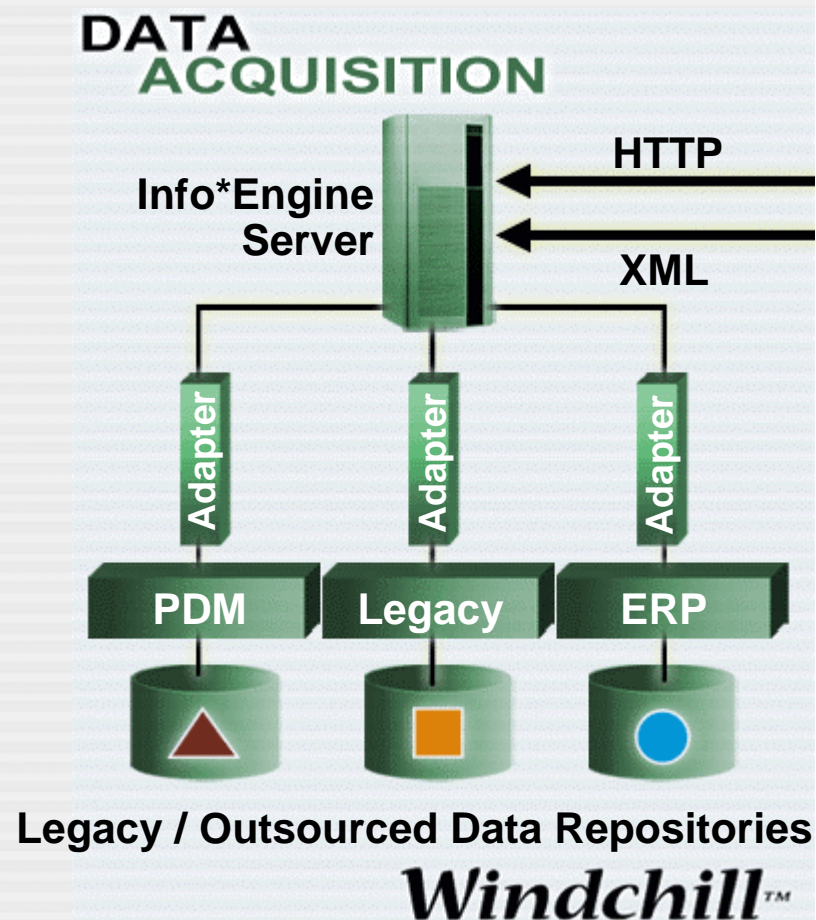
- **Scope**
 - Web-based extended enterprise customer service solution
- **Scale**
 - 500+ seats
- **Benefit**
 - Cost reduction
 - Real-time, on-line access information
 - Improved customer support
- **Tool selection criteria**
 - Thin client
 - Solved business problem immediately
 - Met security requirements



Windchill Data Acquisition Technical Benefits

Embraces leading-edge Web technologies and standards

- **Scalability** - scales across the largest enterprise systems to meet the needs of entire supply chains
- **Extensibility & Reusability** - components can be modified to model the way the business operates
- **Platform Independence** - provides interactive access across multiple hardware/software platforms
- **Federation** - allows autonomy of supply chain applications while empowering them to collaborate as an integrated suite.
- **Central Administration/Security**- access to applications can be controlled and updated from one central location



Windchill Data Acquisition Business Benefits

- **Leverages current investment**
 - Extends the use of information in existing systems
- **Streamlines processes**
 - Automates processes across systems
- **Improves efficiency**
 - Provides all information user requires
 - Tailors solution to specific user needs
- **Enhances decision process**
 - Information is up-to-date and accurate

